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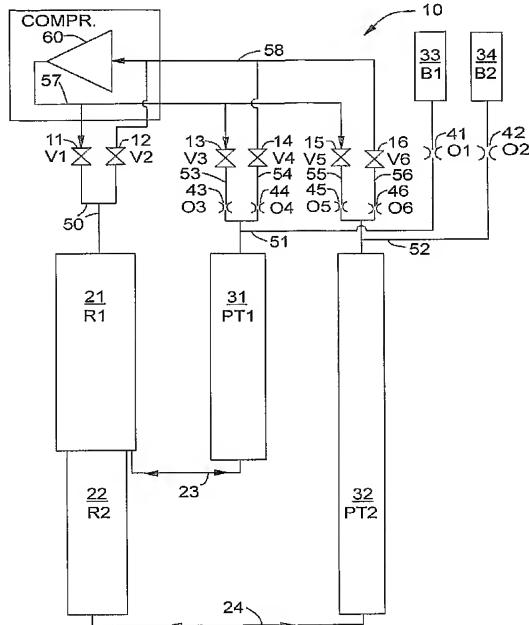
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(54) Title: THREE TRACK VALVE FOR CRYOGENIC REFRIGERATOR



(57) Abstract: A multi valve two-stage pulse tube type GM refrigerator having a rotary valve that comprises one track for flow to the regenerator and two tracks for flow to the pulse tubes where the valve has two high pressure ports to the pulse tubes located on a single track and two low pressure ports from the pulse tubes located on a separate single track and where there are two cooling cycles per revolution of the rotary face valve.